Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: University of Iowa
(Main Campus, Hospitals and Oakdale Campus)
Facility Location: 105 Jessup Hall
Iowa City, Iowa 52242-1316
Air Quality Operating Permit Number: 00-TV-002R1
Expiration Date: September 28, 2013
Permit Renewal Application Deadline: March 28, 2013

EIQ Number: 92-6571
Facility File Number: 52-01-005

Responsible Official
Name: Douglas K. True
Title: Senior Vice President Finance & Operations & University Treasurer
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Permit Contact Person for the Facility
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Title: Energy & Environment Engineer
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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit. Two Title V Permits are being issued for the University of Iowa (one stationary source). This permit is for the Main Campus and Hospitals portion of the university as well as some of the Oakdale Campus sources, and permit 00-TV-001 is for the Power Plant and the remaining Oakdale Campus sources.

For the Director of the Department of Natural Resources

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Douglas A. Campbell, Supervisor of Air Operating Permits Section Date

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Abbreviations

acfm.....actual cubic feet per minute
bhp……..brake horse power
CFR.....Code of Federal Regulation
CE .....control equipment
CEM.....continuous emission monitor
^{o}F.....degrees Fahrenheit
EIQ.....emissions inventory questionnaire
EP.....emission point
EU .....emission unit
gph……..gallons per hour
gr./dscf .....grains per dry standard cubic foot
gr./100 cf.....grains per one hundred cubic feet
IAC.....Iowa Administrative Code
IDNR.....Iowa Department of Natural Resources
MVAC.....motor vehicle air conditioner
NAICS.....North American Industry Classification System
NSPS.....new source performance standard
ppmv .....parts per million by volume
lb./hr.....pounds per hour
lb./MMBtu .....pounds per million British thermal units
SCC.....Source Classification Codes
scfm.....standard cubic feet per minute
SIC…….Standard Industrial Classification
TPY .....tons per year
USEPA.....United States Environmental Protection Agency

Pollutants
PM.....particulate matter
PM_{10}.....particulate matter ten microns or less in diameter
SO_2.....sulfur dioxide
NO_x .....nitrogen oxides
VOC……...volatile organic compound
CO.....carbon monoxide
HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: University of Iowa-Main Campus and Hospitals
Permit Number: 00-TV-002R1

Facility Description: University (SIC 8221)

Equipment List

A. Pre-2003 Emergency Generators

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-006-1	EU-006-GEN-1	Pharmacy Generator	00-A-940-S2
EP-006-2			00-A-941-S2
EP-018-4	EU-018-GEN-3	Biology Building Generator	01-A-800-S3
EP-022-1	EU-022-GEN-1	Engineering Building Generator	99-A-942-S4
EP-044-1	EU-044-GEN-1	Currier Hall Generator	01-A-730-S2
EP-073-1	EU-073-GEN-1	Burge Hall Generator	02-A-377-S3
EP-112-1	EU-112-GEN-1	Hillcrest Generator	02-A-379-S1
EP-185-2	EU-185-GEN-1	Water Plant Generator	99-A-448-S2
EP-204-2	EU-204-GEN-1	Bowen Science Generator	96-A-1235-S3
EP-276-2	EU-276-GEN-2	Daum Hall Generator	02-A-378-S3
EP-278-1	EU-278-GEN-1	DSB Generator	96-A-1236-S2
EP-316-1	EU-316-GEN-1	Lindquist Generator	02-A-380-S1
EP-418-1	EU-418-GEN-1	IATL Generator (dual stack)	96-A-1237-S3
EP-418-2			
EP-430-1	EU-430-GEN-1	PBAB Generator	99-A-592-S1
EP-447-1	EU-447-GEN-1	MEBRF Generator	00-A-840-S1
EP-448-1	EU-448-GEN-1	New Biology Generator	98-A-941-S4
EP-1	EU1-1	Boyd Tower Generator	96-A-1238-S3
EP-2	EU2-1	General Hospital Generator	96-A-1239-S3
EP-4	EU4-1	Pomerantz Family Pavilion Generator	96-A-1240-S6
EP-5	EU5-1	JCP West Generator	96-A-1241-S2
EP-6	EU6-1	JCP East Generator	96-A-1242-S2
EP-7	EU7-1	John Pappajohn Pavilion Generator	96-A-1243-S2
EP-8	EU8-1	South Wing Generator	99-A-449-S2
EP-17	EU17-1	Pomerantz Family Pavilion Eye Clinic Generator	96-A-1244-S4
EP-19	EU19-1	Roy Carver Pavilion Generator	98-A-942-S3

B. Post-2002 Emergency Generators

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-003-5	EU-003-GEN-3	Chemistry Building Generator	06-A-851
EP-004-1	EU-004-GEN-1	Jessup Hall Generator	(2)
EP-042-1	EU-042-GEN-1	Kinnick Stadium Generator	05-A-534-S1
EP-046-4	EU-046-GEN-2	IMU Generator	06-A-852
EP-212-1	EU-212-GEN-1	EPF1 Emergency Generator	08-A-074
EP-435-2	EU-435-GEN-2	MTF Diesel Generator (500 KW)(1)	03-A-645-S2
EP-455-1	EU-455-GEN-1	CBRB Generator	03-A-1412-S2
EP-48	EU48-1	ETC Generator	07-A-484-S1

C. Underground Storage Tanks

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-20	EU20-1	Colloton Pavilion West Fuel Tank	99-A-581-S1
EP-22	EU22-1	Pappajohn Pavilion Fuel Tank	99-A-582-S1
EP-24	EU24-UST-1	PFP Fuel Underground Storage Tank	99-A-600-S1

D. Paint Booths

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-160-20	EU-160-PNT-1	Paint Booth at MSSB	07-A-1293
EP-15	EU15-1	Hospital Paint Booth	94-A-250-S4

E. Pharmacy Tablet Manufacturing

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-006-4	EU-006-TAB-1	Pharmacy Tablet Manufacturing-Room 44C	99-A-943-S2
	EU-006-TAB-2	Pharmacy Tablet Manufacturing-Room 32A	
	EU-006-TAB-3	Pharmacy Tablet Manufacturing-Room 32H	
EP-006-5	EU-006-TAB-4	Pharmacy Tablet Manufacturing-Room 32C	99-A-944-S2
EP-006-6	EU-006-TAB-5	Pharmacy Tablet Manufacturing-Room 32F	99-A-945-S2
EP-006-7	EU-006-TAB-6	Pharmacy Tablet Manufacturing-Room 41B	99-A-946-S2
	EU-006-TAB-7	Pharmacy Tablet Manufacturing-Room 43E	

(1) Located at Oakdale Campus.

(2) This generator was granted a temporary variance to install. A construction permit application for the generator has been submitted to the IDNR.

F. Cooling Towers

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-308-2	EU-308-CT-1	WCCWP Cooling Tower 1	07-A-497
EP-308-3	EU-308-CT-2	WCCWP Cooling Tower 2	07-A-498

G. Miscellaneous Processes

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-006-3	EU-006-HOOD-1	Pharmacy Hot Plate Hood	99-A-597-S1
EP-185-1	EU-185-LIME-1	Water Plant Lime Conveying System	N/A
EP-204-1	EU-204-INC-1	Crematorium-Natural Gas Combustion	87-A-156-S1
	EU-204-INC-1A	Crematorium-Pathological Waste Combustion	
EP-436-9	EU-436-PRNT-2	Camera Processor	99-A-586
EP-14	EU14-1	JCP Sterilizing Services	99-A-580

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-002-GEN-1	Schaeffer Hall Generator (35 KW) [3]
EU-003-AST-3	Chemistry Generator Fuel Tank (3,000, gal, #2 diesel))
EU-004-AST-1	Jessup Hall Generator Fuel Tank (800 gal, #2 diesel)
EU-005-FUR-1	Furnace (0.075 MMBtu/hr)
EU-005-WH-1	Water Heater[4]
EU-009-BLR-1	Boiler[2][4]
EU-009-WH-1	Water Heater[4]
EU-010-FUR-1	Furnace[4]
EU-010-WH-1	Water Heater[4]
EU-013-GEN-1	Athletic Learning Center Generator- (12KW, Natural Gas)
EU-021-ANL-5	Annealing Area
EU-021-CUT-5	Cutting Torch
EU-021-CUT-6	Cutting Torch
EU-021-CUT-7	Cutting Torch
EU-021-CUT-8	Cutting Torch
EU-021-CUT-9	Cutting Torch
EU-021-CUT-10	Cutting Torch
EU-021-ELEC-1	Electroplating Area
EU-021-ETCH-1	Etching Area
EU-021-FUR-11	Casting Furnace[4]
EU-021-FUR-12	Forge Furnace[4]
EU-021-FUR-13	Ceramic Shell Burnout Kiln
EU-021-FUR-14	Car Bottom Kiln
EU-021-GOLD-1	Gold Plating Area
EU-021-KILN-1	Kiln
EU-021-KILN-2	Kiln
EU-021-KILN-3	Kiln
EU-021-KILN-4	Kiln
EU-021-KILN-5	Kiln
EU-021-KILN-6	Kiln
EU-021-KILN-8	Kiln
EU-021-KILN-9	Kiln
EU-021-KILN-10	Ceramic Kiln
EU-021-MIX-1	Foundry Sand Muller (Closed Lid)
EU-021-NITR-1	Nitric Acid Tank
EU-021-SPRAY-2	AB Spray Can Booth
EU-021-SUL-1	Sulfuric Acid Tank
EU-021-UH-9	Unit Heater
EU-021-UH-10	Unit Heater [4]
EU-021-WAX-1	Wax Melting Area
EU-022-AST-1	Engineering Building Generator Fuel Tank (530 gal, #2 diesel)
EU-022-BEAD-1	Engineering Building Bead Blaster
EU-022-SOLD-1	Engineering Building Soldering
EU-022-WELD-1	Engineering Building Welding

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-022-WELD-2	Engineering Building Welding
EU-027-FUR-1	Furnace[4]
EU-027-WH-1	Water Heater[4]
EU-028-GEN-1	ML Generator (75 KW)[3]
EU-032-FUR-1	Furnace[4]
EU-032-WH-1	Water Heater[4]
EU-033-GEN-1	Westlawn Generator (100KW)[3]
EU-034-GEN-1	MEB Generator (180 KW)[3]
EU-036-FUR-1	Furnace[4]
EU-036-WH-1	Water Heater[4]
EU-040-GEN-1	Fieldhouse Generator-(32.5 KW)[3]
EU-042-AST-1	Kinnick Generator Fuel Tank (600 gal, #2 Diesel)
EU-046-AST-2	IMU Generator Fuel Tank (700 gal, #2 Diesel)
EU-047-FUR-1	Furnace[4]
EU-047-WH-1	Water Heater[4]
EU-049-FUR-1	Furnace[4]
EU-049-WH-1	Water Heater[4]
EU-053-FUR-1	Furnace[4]
EU-053-WH-1	Water Heater[4]
EU-055-BLR-1	Boiler[2] [4]
EU-055-WH-1	Water Heater[4]
EU-056-BLR-1	Boiler[2] [4]
EU-056-WH-1	Water Heater[4]
EU-056-WH-2	Water Heater[4]
EU-057-GEN-1	2660 Crosspark Rd. Natural Gas Generator (80 KW)[3]
EU-057-FUR-1	2660 Crosspark Rd. NE Rooftop Furnace[1] [4]
EU-057-FUR-2	2660 Crosspark Rd. NW Rooftop Furnace[1] [4]
EU-057-BLR-1	2660 Crosspark Rd. Hot Water Boiler #1[1] [4]
EU-057-BLR-2	2660 Crosspark Rd. Hot Water Boiler #2[1] [4]
EU-057-BLR-3	2660 Crosspark Rd. Hot Water Boiler #3[1] [4]
EU-061-FUR-1	Furnace[4]
EU-061-WH-1	Water Heater[4]
EU-062-FUR-1	Furnace[4]
EU-062-WH-1	Water Heater[4]
EU-065-FUR-1	Furnace[4]
EU-065-WH-1	Water Heater[4]
EU-069-GEN-1	2656 Crosspark Rd. Natural Gas Generator (60 KW)[3]
EU-069-FUR-1	2656 Crosspark Rd. E Rooftop Furnace #1[1][4]
EU-069-FUR-2	2656 Crosspark Rd. E Rooftop Furnace #2[1][4]
EU-069-FUR-3	2656 Crosspark Rd. E Rooftop Furnace #3[1][4]
EU-069-FUR-4	2656 Crosspark Rd. W Rooftop Furnace [1][4]
EU-069-FUR-5	2656 Crosspark Rd. W Rooftop Lab Furnace #3[1][4]
EU-072-GEN-1	UI Capital Center Generator (200 KW, Natural Gas)[3]
EU-076-FUR-1	Furnace[4]
EU-076-WH-1	Water Heater[4]
EU-077-FUR-1	Furnace[4]

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-077-WH-1	Water Heater[4]
EU-085-FUR-1	Furnace[4]
EU-085-WH-1	Water Heater[4]
EU-101-BLR-1	Boiler-WRAC[2] [4]
EU-101-WH-1	Water Heater-WRAC[4]
EU-123-FUR-1	Furnace[4]
EU-123-WH-1	Water Heater[4]
EU-124-FUR-1	Furnace[4]
EU-124-WH-1	Water Heater[4]
EU-127-WH-1	Water Heater[4]
EU-132-FUR-1	Furnace[4]
EU-155-FUR-1	Furnace[4]
EU-155-WH-1	Water Heater[4]
EU-156-FUR-1	Furnace[4]
EU-156-WH-1	Water Heater[4]
EU-160-FUR-1	MSSB Furnace[4]
EU-160-FUR-2	MSSB Furnace[4]
EU-160-FUR-3	MSSB Furnace[4]
EU-160-FUR-4	MSSB Furnace[4]
EU-160-RH-1	MSSB Radiant Heater[4]
EU-160-RH-2	MSSB Radiant Heater[4]
EU-160-RH-3	MSSB Radiant Heater[4]
EU-160-RH-4	MSSB Radiant Heater[4]
EU-160-RH-5	MSSB Radiant Heater[4]
EU-160-RH-6	MSSB Radiant Heater[4]
EU-160-RH-7	MSSB Radiant Heater[4]
EU-160-RH-8	MSSB Radiant Heater[4]
EU-160-RH-9	MSSB Radiant Heater[4]
EU-160-RH-10	MSSB Radiant Heater[4]
EU-160-RH-11	MSSB Radiant Heater[4]
EU-160-UH-1	MSSB Unit Heater[4]
EU-160-UH-2	MSSB Unit Heater[4]
EU-160-WH-1	MSSB Water Heater[4]
EU-164-BLR-1	Boiler[2] [4]
EU-164-UH-1	Unit Heater[4]
EU-164-UH-2	Unit Heater[4]
EU-164-UH-3	Unit Heater[4]
EU-164-UH-4	Unit Heater[4]
EU-164-UH-5	Unit Heater[4]
EU-164-WH-1	Water Heater[4]
EU-167-FUR-1	Furnace[4]
EU-167-WH-1	Water Heater[4]
EU-171-FUR-1	Furnace[4]
EU-171-WH-1	Water Heater[4]
EU-174-BLR-1	Boiler[2] [4]
EU-174-WH-1	Water Heater[4]

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-175-FUR-1	Furnace[4]
EU-175-FUR-2	Furnace[4]
EU-175-FUR-3	Furnace[4]
EU-175-FUR-4	Furnace[4]
EU-175-FUR-5	Furnace[4]
EU-175-FUR-6	Furnace[4]
EU-175-FUR-7	Furnace[4]
EU-175-FUR-8	Furnace[4]
EU-175-FUR-9	Furnace[4]
EU-175-FUR-10	Furnace[4]
EU-175-WH-1	Water Heater[4]
EU-175-WH-2	Water Heater[4]
EU-175-WH-3	Water Heater[4]
EU-175-WH-4	Water Heater[4]
EU-175-WH-5	Water Heater[4]
EU-175-WH-6	Water Heater[4]
EU-175-WH-7	Water Heater[4]
EU-175-WH-8	Water Heater[4]
EU-175-WH-9	Water Heater[4]
EU-175-WH-10	Water Heater[4]
EU-176-FUR-1	Furnace[4]
EU-176-WH-1	Water Heater[4]
EU-185-AST-1	Water Plant Generator Fuel Tank (2,000 gal, #2 Diesel)
EU-187-FUR-1	Furnace[4]
EU-187-FUR-2	Furnace[4]
EU-187-WH-1	Water Heater [4]
EU-195-FUR-1	Furnace[4]
EU-195-WH-1	Water Heater [4]
EU-199-FUR-1	Furnace[4]
EU-199-WH-1	Water Heater [4]
EU-200-FUR-1	Furnace[4]
EU-200-WH-1	Water Heater [4]
EU-204-UST-1	Bowen Science Building Fuel Tank (564 gal, #2 Diesel)
EU-212-AST-1	EPFI Generator Diesel AST (1,260 gal, #2 Diesel)[3]
EU-216-UH-1	Unit Heater[4]
EU-216-UH-2	Unit Heater[4]
EU-219-FUR-1	Furnace[4]
EU-219-WH-1	Water Heater[4]
EU-225-GEN-1	Oakdale Hall Diesel Generator (45KW) [1] [3]
EU-255-WH-1	Animal Care Rodent House Water Heater [1] [4]
EU-273-GEN-2	Rienow Generator (250 KW)[3]
EU-274-AST-1	Slater Hall Fuel Tank (500 gal, #2 Diesel)
EU-274-GEN-2	Slater Hall Generator (250 KW)[3]
EU-300-BLR-1	Boiler[2] [4]
EU-300-BLR-2	Boiler[2] [4]
EU-300-WH-1	Water Heater[4]

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-304-GEN-1	Jacobson Building Generator (20 KW, Natural Gas)
EU-304-UH-1	Unit Heater[4]
EU-304-UH-2	Unit Heater[4]
EU-304-UH-3	Unit Heater[4]
EU-307-FUR-1	Furnace[4]
EU-307-WH-1	Water Heater[4]
EU-308-GEN-1	WCCWP Generator (110 KW)[3]
EU-316-AST-1	Lindquist Center Generator Fuel Tank (500 gal, #2 Diesel)
EU-326-FUR-1	Furnace[4]
EU-326-WH-1	Water Heater[4]
EU-327-FUR-1	Furnace[4]
EU-327-WH-1	Water Heater[4]
EU-330-GEN-1	PRL Natural Gas Generator (45KW)[3]
EU-337-AST-1	Gasoline Tank (1,000 gal)
EU-337-AST-2	Diesel Tank (1,000 gal)
EU-337-FUR-1	Furnace[4]
EU-337-UH-1	Unit Heater[4]
EU-342-AST-1	Used Oil Tank (1,000 gal)
EU-342-FUR-1	Forced Air Furnace[4]
EU-342-RH-1	Reverber Ray Radiant Heater[4]
EU-342-RH-2	Reverber Ray Radiant Heater[4]
EU-342-RH-3	Reverber Ray Radiant Heater[4]
EU-342-RH-4	Reverber Ray Radiant Heater[4]
EU-342-RH-5	Reverber Ray Radiant Heater[4]
EU-342-RH-6	Reverber Ray Radiant Heater[4]
EU-342-RH-7	Reverber Ray Radiant Heater[4]
EU-342-RH-8	Reverber Ray Radiant Heater[4]
EU-342-RH-9	Reverber Ray Radiant Heater[4]
EU-342-RH-10	Reverber Ray Radiant Heater[4]
EU-342-RH-11	Reverber Ray Radiant Heater[4]
EU-342-RH-12	Reverber Ray Radiant Heater[4]
EU-342-RH-13	Reverber Ray Radiant Heater[4]
EU-342-RH-14	Reverber Ray Radiant Heater[4]
EU-342-RH-15	Reverber Ray Radiant Heater[4]
EU-342-RH-16	Reverber Ray Radiant Heater[4]
EU-342-UST-1	Fleet Services Gasoline UST (12,000 gal) [5]
EU-342-UST-2	Fleet Services Ethanol UST (12,000 gal)
EU-342-UST-3	Fleet Services Diesel UST (12,000 gal)
EU-342-UST-4	Fleet Services Cambus Diesel UST (12,000 gal)
EU-342-UH-1	Hanging Unit Heater[4]
EU-347-UH-1	Unit Heater[4]
EU-347-UH-2	Unit Heater[4]
EU-358-UH-1	Unit Heater[4]
EU-358-UH-2	Unit Heater[4]
EU-358-UH-3	Unit Heater[4]
EU-358-WH-1	Water Heater[4]

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-358-WH-2	Water Heater[4]
EU-369-FUR-1	Furnace[4]
EU-370-WH-1	Iowa Geological Survey Water Heater[1] [4]
EU-373-WH-1	Hydraulics Oakdale Annex 1 Water Heater[1] [4]
EU-373-WH-2	Hydraulics Oakdale Annex 1 Water Heater[1] [4]
EU-374-GEN-1	CHA Generator-(50 KW, Propane)[3]
EU-377-GEN-1	Boyd Law Generator-(260 KW)[3]
EU-378-ST-1	Waste Storage Facility-Sorting Table[1]
EU-378-VU-1	Waste Storage Facility-Vyleater Unit[1]
EU-378-CT-1	Waste Storage Facility-Chemical Transfer[1]
EU-378-N-1	Waste Storage Facility-Neutralization[1]
EU-378-SPRAY-1	Waste Storage Facility-Spray Can Booth[1]
EU-379-BLR-1	Boiler[2] [4]
EU-379-BLR-2	Boiler[2] [4]
EU-379-FUR-1	Forced Air Furnace[4]
EU-379-FUR-2	Forced Air Furnace[4]
EU-379-WH-1	Water Heater[4]
EU-382-WH-1	Helicopter Hanger-Water Heater[1] [4]
EU-382-FUR-1	Helicopter Hanger-Furnace[1] [4]
EU-382-UH-1	Helicopter Hanger-Unit Heater[1] [4]
EU-382-UH-2	Helicopter Hanger-Unit Heater[1] [4]
EU-382-AST-1	Helicopter Hanger-Jet Fuel Tank (2,000 gal)[1]
EU-391-BLR-1	Boiler[2] [4]
EU-391-BLR-2	Boiler[2] [4]
EU-391-BLR-3	Boiler[2] [4]
EU-391-GEN-1	Mayflower Generator (200 KW)[3]
EU-393-BLR-1	Boiler[2] [4]
EU-393-UH-1	Unit Heater[4]
EU-393-UH-2	Unit Heater[4]
EU-394-FUR-1	Furnace[4]
EU-394-WH-1	Water Heater[4]
EU-398-GEN-1	Emergency Fan with IC Engines
EU-398-GEN-2	Emergency Fan with IC Engines
EU-398-GEN-3	IPF Generator (80 KW, Natural Gas)
EU-398-UH-1	Unit Heater[4]
EU-398-UH-2	Unit Heater[4]
EU-398-UH-3	Unit Heater[4]
EU-399-FUR-1	Propane-Fired Forced Air Furnace
EU-401-GEN-1	EMRB Generator (210 KW)[3]
EU-401-UST-1	EMRB Fuel Tank (2,385 gal, #2 Diesel)
EU-408-GEN-1	Oakdale Uplink-ITS Broadcasting Generator (125 KW)[1]
EU-416-UH-1	Oakdale Storage F Unit Heater[1] [4]
EU-416-UH-2	Oakdale Storage F Unit Heater[1] [4]
EU-416-UH-3	Oakdale Storage F Unit Heater[1] [4]
EU-416-UH-4	Oakdale Storage F Unit Heater[1] [4]
EU-416-UH-5	Oakdale Storage F Unit Heater[1] [4]

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-416-UH-6	Oakdale Storage F Unit Heater[(1) (4)]
EU-417-UH-1	Oakdale Storage G Unit Heater[(1) (4)]
EU-417-UH-2	Oakdale Storage G Unit Heater[(1) (4)]
EU-417-UH-3	Oakdale Storage G Unit Heater[(1) (4)]
EU-417-UH-4	Oakdale Storage G Unit Heater[(1) (4)]
EU-417-UH-5	Oakdale Storage G Unit Heater[(1) (4)]
EU-417-UH-6	Oakdale Storage G Unit Heater[(1) (4)]
EU-418-AST-1	IATL Fuel Tank (960 gal, #2 Diesel)
EU-428-UH-1	Oakdale Storage H Unit Heater[(1) (4)]
EU-428-UH-2	Oakdale Storage H Unit Heater[(1) (4)]
EU-428-UH-3	Oakdale Storage H Unit Heater[(1) (4)]
EU-428-UH-4	Oakdale Storage H Unit Heater[(1) (4)]
EU-428-UH-5	Oakdale Storage H Unit Heater[(1) (4)]
EU-428-UH-6	Oakdale Storage H Unit Heater[(1) (4)]
EU-429-UH-1	Oakdale Storage J Unit Heater[(1) (4)]
EU-429-UH-2	Oakdale Storage J Unit Heater[(1) (4)]
EU-429-UH-3	Oakdale Storage J Unit Heater[(1) (4)]
EU-429-UH-4	Oakdale Storage J Unit Heater[(1) (4)]
EU-429-UH-5	Oakdale Storage J Unit Heater[(1) (4)]
EU-429-UH-6	Oakdale Storage J Unit Heater[(1) (4)]
EU-434-BLR-1	Hot Water Boiler[(2)(4)]
EU-434-BLR-2	Hot Water Boiler[(2)(4)]
EU-434-BLR-3	Hot Water Boiler[(2)(4)]
EU-434-BLR-4	Hot Water Boiler[(2)(4)]
EU-434-GEN-1	Levitt Center Generator (250 KW)[(3)]
EU-434-WH-1	Water Heater [(4)]
EU-435-GEN-1	MTF Diesel Generator (250KW) [(1) (3)]
EU-436-FUR-1	Furnace[(4)]
EU-436-FUR-2	Furnace[(4)]
EU-436-FUR-3	Furnace[(4)]
EU-436-FUR-4	Furnace[(4)]
EU-436-FUR-5	Furnace[(4)]
EU-436-PRNT-1	Composition Processor
EU-436-UH-6	Unit Heater[(4)]
EU-436-UH-7	Unit Heater[(4)]
EU-437-FUR-1	Furnace[(4)]
EU-437-WH-1	Water Heater[(4)]
EU-439-BLR-1	NADS Boiler #1[(1) (2) (4)]
EU-439-BLR-2	NADS Boiler #2[(1) (2) (4)]
EU-439-BLR-3	NADS Boiler #3[(1) (2(4))]
EU-439-GEN-1	NADS Natural Gas Generator (65 KW)[(1) (2)]
EU-440-FUR-1	Hydraulics Oakdale Annex 2 Furnace #1[(1) (4)]
EU-440-FUR-2	Hydraulics Oakdake Annex 2 Furnace #2[(1) (4)]
EU-440-UH-1	Hydraulics Oakdale Annex 2 Unit Heater #1[(1) (4)]
EU-440-UH-2	Hydraulics Oakdale Annex 2 Unit Heater #2[(1) (4)]
EU-440-UH-3	Hydraulics Oakdale Annex 2 Unit Heater #3[(1) (4)]

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-440-UH-4	Hydraulics Oakdale Annex 2 Unit Heater #4[(1) (4)]
EU-440-UH-5	Hydraulics Oakdale Annex 2 Unit Heater #5[(1) (4)]
EU-440-UH-6	Hydraulics Oakdale Annex 2 Unit Heater #6[(1) (4)]
EU-440-UH-7	Hydraulics Oakdale Annex 2 Unit Heater #7[(1) (4)]
EU-440-UH-8	Hydraulics Oakdale Annex 2 Unit Heater #8[(1) (4)]
EU-440-UH-9	Hydraulics Oakdale Annex 2 Unit Heater #9[(1) (4)]
EU-440-UH-10	Hydraulics Oakdale Annex 2 Unit Heater #10[(1) (4)]
EU-440-UH-11	Hydraulics Oakdale Annex 2 Unit Heater #11[(1) (4)]
EU-441-BLR-1	Laundry Building Boiler #1[(1) (2) (4)]
EU-441-BLR-2	Laundry Building Boiler #2[(1) (2) (4)]
EU-441-WH-1	Laundry Building Water Heater #1[(1) (4)]
EU-441- WH-2	Laundry Building Water Heater #2[(1) (4)]
EU-441- WH-3	Laundry Building Water Heater #3[(1) (4)]
EU-441- WH-4	Laundry Building Water Heater #4[(1) (4)]
EU-441- WH-5	Laundry Building Water Heater #5[(1) (4)]
EU-441- WH-6	Laundry Building Water Heater #6[(1) (4)]
EU-441- WH-7	Laundry Building Water Heater #7[(1) (4)]
EU-441- WH-8	Laundry Building Water Heater #8[(1) (4)]
EU-441- WH-9	Laundry Building Water Heater #9[(1) (4)]
EU-441- WH-10	Laundry Building Water Heater #10[(1) (4)]
EU-441- WH-11	Laundry Building Water Heater #11[(1) (4)]
EU-441-FUR-1	Laundry Building Roof Furnace #1[(1) (4)]
EU-441-FUR-2	Laundry Building Roof Furnace #2[(1) (4)]
EU-446-BLR-1	Hot Water Boiler[(2) (4)]
EU-446-BLR-2	Hot Water Boiler[(2) (4)]
EU-446-BLR-3	Hot Water Boiler[(2) (4)]
EU-446-GEN-1	Hall of Fame Generator (230 KW)[(3)]
EU-447-AST-1	MEBRF Generator Fuel Tank (500 gal #2 Diesel)[(3)]
EU-448-WH-1	Water Heater [(4)]
EU-449-WH-1	Softball Stadium Water Heater [(4)]
EU-450-GEN-1	USB Generator (45 KW, Natural Gas)[(3)]
EU-450-BLR-1	USB Hot Water Boiler[(2) (4)]
EU-450-BLR-2	USB Hot Water Boiler[(2) (4)]
EU-450-WH-1	USB Water Heater [(4)]
EU-451-FUR-1	Furnace [(4)]
EU-451-FUR-2	Furnace [(4)]
EU-452-BLR-1	Boiler [(2) (4)]
EU-452-WH-1	Water Heater [(4)]
EU-452-WH-2	Water Heater [(4)]
EU-453-FUR-1	Furnace [(4)]
EU-453-WH-1	Water Heater [(4)]
EU-454-GEN-1	Blank Honors Center Generator (179 KW, Natural Gas)[(3)]
EU-455-AST-1	CBRB Generator Fuel Tank (600 gal, #2 Diesel)
EU-456-GEN-1	Adler Emergency Generator (250 KW)[(3)]
EU-457-BLR-1	West Tennis Boiler[(2) (4)]
EU-457-BLR-2	West Tennis Boiler[(2) (4)]
EU-457-WH-1	West Tennis Water Heater [(4)]

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-457-WH-2	West Tennis Water Heater [4]
EU-458-GEN-1	Pomerantz Career Center E Generator (240 KW, Natural Gas)[3]
EU-460-FUR-1	Furnace [4]
EU-460-WH-1	Water Heater [4]
EU-461-FUR-1	Furnace [4]
EU-461-FUR-2	Furnace [4]
EU-461-FUR-3	Furnace [4]
EU-461-FUR-4	Furnace [4]
EU-462-FUR-1	Furnace [4]
EU-462-WH-1	Water Heater [4]
EU-467-GEN-1	ITS Switching Facility Generator (25 KW, Propane)
EU-469-FUR-1	Furnace [4]
EU-469-WH-1	Water Heater [4]
EU-470-FUR-1	Furnace [4]
EU-470-WH-1	Water Heater [4]
EU-471-FUR-1	Furnace [4]
EU-471-WH-1	Water Heater [4]
EU3-1	South Wing Generator (200 KW)[3]
EU11-UST-1	Jet Fuel Tank (10,000 gal)
EU12-WELD-1	Welding
EU13-WELD-1	Welding
EU21-1	Colloton Pavillion East Fuel Tank (10,000 gal, Diesel)
EU23-UST-1	RCP Fuel Tank (10,000 gal, Diesel)
EU25-1	CDD Generator (230 KW)[3]
EU43-UST-1	Boyd Tower Tank (10,000 gal, Diesel)
EU-F-SAND	Sand Pile (Inside)
EU-F-SALT	Salt Pile (Inside)
EU-F-003-CUT-1	Cutting Torch-Chem/Bot
EU-F-003-CUT-2	Cutting Torch-Chem/Bot
EU-F-003-PTW-1	Parts Washer-Chem/Bot Safety Kleen
EU-F-008-WD-1	Wood Shop Teaching Lab
EU-F-011-CUT-1	Cutting Torch-Seashore
EU-F-021-CUT-1	Acetylene Torch-Art Building
EU-F-021-CUT-2	Acetylene Torch -Art Building
EU-F-021-CUT-3	Acetylene Torch -Art Building
EU-F-021-CUT-4	Acetylene Torch -Art Building
EU-F-021-WELD-2	Welding-Art Building
EU-F-021-WELD-3	Welding-Art Building
EU-F-021-WELD-4	Welding-Art Building
EU-F-021-WELD-5	Welding-Art Building
EU-F-021-WELD-6	Welding-Art Building
EU-F-021-WELD-7	Welding-Art Building
EU-F-028-WELD-1	Welding
EU-F-046-WELD-1	Welding
EU-F-058-CUT-1	Cutting Torch-Steam Shop
EU-F-058-CUT-2	Cutting Torch-Steam Shop
EU-F-058-CUT-3	Cutting Torch-Steam Shop

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-F-058-CUT-4	Cutting Torch-Steam Shop
EU-F-136-CUT-1	Cutting Torch-Main Library
EU-F-136-CUT-2	Cutting Torch-Main Library
EU-F-185-LIME-2	Lime Loading (Pneumatic)
EU-F-185-WELD-1	Welding-Water Plant
EU-F-188-WD-1	Wood Shop
EU-F-188-WELD-1	Welding
EU-F-203-WELD-1	Welding
EU-F-242-WD	Oakdale Shops Wood Working[(1)]
EU-F-244-TSDF	TSDF-Oakdale Storage K[(1)]
EU-F-278-CUT-1	Cutting Torch-DSB Bldg
EU-F-278-PTW-1	Parts Washer-DSB Bldg
EU-F-342-CUT-1	Cutting Torch-Campus Garage
EU-F-342-PTW-1	Parts Washer-Campus Garage
EU-F-360-CUT-1	Cutting Torch-Ramp 2 Shop Garage
EU-F-360-PTW-1	Parts Washer-Ramp 2 Shop Garage
EU-F- 448-CUT-1	Cutting Torch-Biology
EU-F- 448-CUT-2	Cutting Torch-Biology
EUF26-CUT-1	Cutting Torch
EUF26-CUT-2	Cutting Torch
EUF26-CUT-3	Cutting Torch
EUF42-1	Hospital Carpenter Shop
EUF42-2	Hospital Carpenter Shop
EUF42-3	Hospital Carpenter Shop
EUF42-4	Hospital Carpenter Shop
EUF42-5	Hospital Carpenter Shop

(1) Located at the Oakdale Campus.

(2) This unit is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters (567 IAC 23.1(4)"dd", 40 CFR Part 63, Subpart DDDDD), but is not subject to the initial notification or any other requirements of Subparts DDDDD or A of 40 CFR Part 63. On July 30, 2007, the DC Circuit Court vacated 40 CFR Part 63, Subpart DDDDD).

(3) This unit is of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Reciprocating Internal Combustion Engines (567 IAC 23.1(4)"cz", 40 CFR Part 63, Subpart ZZZZ), but is not subject to the initial notification or any other requirements of Subparts ZZZZ or A of 40 CFR Part 63.

(4) Natural Gas-Fired and less than 10 MMBtu/hr.

(5) IDNR Construction Permit 07-A-1294 for this emission unit does not contain any specific terms or conditions. Therefore the emission unit qualifies as an insignificant activity per 567 IAC 22.103.

II. Plant-Wide Conditions

Facility Name: University of Iowa-Main Campus and Hospitals
Permit Number: 00-TV-002R1

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: Five (5) years.
Commencing on: September 24, 2008
Ending on: September 23, 2013

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Emission Limits
Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): 40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter:
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

Reporting and Recordkeeping

Fuel oil burning sources at the facility shall not combust fuels which exceed 0.05% sulfur by weight. The facility shall demonstrate compliance with this limit by keeping the fuel's Bill of Lading, provided by the wholesaler/ pipeline monthly, onsite for a minimum of five years. This certification will also be provided to the IDNR's Compliance section in the semi-annual compliance monitoring reports (see General Conditions G5).

Authority for Requirement: 567 IAC 22.108(14)

Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, University of Iowa-Main Campus and Hospitals is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit

term, University of Iowa-Main Campus and Hospitals shall comply with such requirements in a timely manner.
Authority for Requirement: 567 IAC 22.108(15)

40 CFR 63 Subpart ZZZZ Requirements
The Post 2002 Emergency Generators are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines (40 CFR §63.6580 through 40 CFR §63.6675) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15). These generators are considered an Emergency Stationary Reciprocating Internal Combustion Engine (RICE) and are only subject to the initial notification requirements of 40 CFR §63.6645(d). By the definition in 40 CFR 63.6675, Emergency Stationary RICE may operate only an additional 50 hours per year in non-emergency situations.

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40 CFR 60 Subpart IIII Requirements
Post 2002 Emergency Generators EU-003-GEN-3, EU-046-GEN-2 and EU48-1 are subject to the New Source Performance Standards (NSPS) Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR §60.4200 through 40 CFR §60.4219) and to NSPS Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19). Applicable subpart IIII requirements are incorporated into the Emission-Point Specific Conditions Section.

III. Emission Point-Specific Conditions

Facility Name: University of Iowa-Main Campus and Hospitals
Permit Number: **00-TV-002R1**

Emission Point ID Number: See Table: Pre-2003 Emergency Generators

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Pre-2003 Emergency Generators

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Table: Pre-2003 Emergency Generators

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity
EP-006-1	EU-006-GEN-1	Pharmacy Generator	Diesel Fuel	5.96 MMBtu/hr
EP-006-2				
EP-018-4	EU-018-GEN-3	Biology Bldg. Generator	Diesel Fuel	6.06 MMBtu/hr
EP-022-1	EU-022-GEN-1	Engineering Bldg. Generator	Diesel Fuel	5.38 MMBtu/hr
EP-044-1	EU-044-GEN-1	Currier Hall Generator	Diesel Fuel	4.00 MMBtu/hr
EP-073-1	EU-073-GEN-1	Burge Hall Generator	Diesel Fuel	3.14 MMBtu/hr
EP-112-1	EU-112-GEN-1	Hillcrest Generator	Diesel Fuel	2.78 MMBtu/hr
EP-185-2	EU-185-GEN-1	Water Plant Generator	Diesel Fuel	11.50 MMBtu/hr
EP-204-2	EU-204-GEN-1	Bowen Science Generator	Diesel Fuel	3.59 MMBtu/hr
EP-276-2	EU-276-GEN-2	Daum Hall Generator	Diesel Fuel	3.14 MMBtu/hr
EP-278-1	EU-278-GEN-1	DSB Generator	Diesel Fuel	2.85 MMBtu/hr
EP-316-1	EU-316-GEN-1	Lindquist Generator	Diesel Fuel	2.55 MMBtu/hr
EP-418-1	EU-418-GEN-1	IATL Generator (dual stack)	Diesel Fuel	7.60 MMBtu/hr
EP-418-2				
EP-430-1	EU-430-GEN-1	PBAB Generator	Diesel Fuel	3.08 MMBtu/hr
EP-447-1	EU-447-GEN-1	MEBRF Generator	Diesel Fuel	12.08 MMBtu/hr
EP-448-1	EU-448-GEN-1	New Biology Generator	Diesel Fuel	4.82 MMBtu/hr
EP-1	EU1-1	Boyd Tower Generator	Diesel Fuel	9.86 MMBtu/hr
EP-2	EU2-1	General Hospital Generator	Diesel Fuel	9.86 MMBtu/hr
EP-4	EU4-1	Pomerantz Family Pavilion Generator	Diesel Fuel	9.25 MMBtu/hr
EP-5	EU5-1	JCP West Generator	Diesel Fuel	12.33 MMBtu/hr
EP-6	EU6-1	JCP East Generator	Diesel Fuel	12.33 MMBtu/hr
EP-7	EU7-1	John Pappajohn Pavilion Generator	Diesel Fuel	12.33 MMBtu/hr
EP-8	EU8-1	South Wing Generator	Diesel Fuel	4.00 MMBtu/hr
EP-17	EU17-1	Pomerantz Family Pavilion Eye Clinic Generator	Diesel Fuel	12.08 MMBtu/hr
EP-19	EU19-1	Roy Carver Pavilion Generator	Diesel Fuel	13.82 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

Table: Pre 2003 Emergency Generators -Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM Limit	PM_{10} Limit (lb/hr)	NO_x Limit	Authority for Requirement (Construction Permit Number)
EP-006-1	EU-006-GEN-1	40%(1)	0.1 gr/dscf(4)	0.41	N/A	00-A-940-S2
EP-006-2						00-A-941-S2
EP-018-4	EU-018-GEN-3	40%(1)	0.87 lb/hr	0.87	40 lb/hr	01-A-800-S3
EP-022-1	EU-022-GEN-1	40%(1)	0.753 lb/hr	0.753	N/A	99-A-942-S4
EP-044-1	EU-044-GEN-1	40%(1)	0.1 gr/dscf(4)	1.27	27 lb/hr	01-A-730-S2
EP-073-1	EU-073-GEN-1	40%(1)	0.917 lb/hr	0.917	N/A	02-A-377-S3
EP-112-1	EU-112-GEN-1	40%(1)	0.1 gr/dscf(4)	0.862	N/A	02-A-379-S1
EP-185-2	EU-185-GEN-1	40%(1)	0.1 gr/dscf(4)	1.61	51.39 lb/hr	99-A-448-S2
EP-204-2	EU-204-GEN-1	40%(2)	0.88 lb/hr	0.88	N/A	96-A-1235-S3
EP-276-2	EU-276-GEN-2	40%	0.917 lb/hr	0.917	N/A	02-A-378-S3
EP-278-1	EU-278-GEN-1	40%(3)	0.1 gr/dscf(4)	0.70	N/A	96-A-1236-S2
EP-316-1	EU-316-GEN-1	40%(1)	0.1 gr/dscf(4)	0.808	N/A	02-A-380-S1
EP-418-1	EU-418-GEN-1	40%(2)	1.86 lb/hr	1.86	N/A	96-A-1237-S3
EP-418-2						
EP-430-1	EU-430-GEN-1	40%(1)	0.88 lb/hr	0.88	N/A	99-A-592-S1
EP-447-1	EU-447-GEN-1	40%(1)	0.1 gr/dscf(4)	1.69	39.79 lb/hr	00-A-840-S1
EP-448-1	EU-448-GEN-1	40%(1)	0.67 lb/hr	0.67	N/A	98-A-941-S4
EP-1	EU1-1	40%(2)	2.41 lb/hr	2.41	N/A	96-A-1238-S3
EP-2	EU2-1	40%(2)	2.41 lb/hr	2.41	N/A	96-A-1239-S3
EP-4	EU4-1	40%(3)	0.1 gr/dscf(4)	1.4	N/A	96-A-1240-S6
EP-5	EU5-1	40%(3)	0.1 gr/dscf(4)	3.01	N/A	96-A-1241-S2
EP-6	EU6-1	40%(3)	0.1 gr/dscf(4)	3.01	N/A	96-A-1242-S2
EP-7	EU7-1	40%(3)	0.1 gr/dscf(4)	3.01	N/A	96-A-1243-S2
EP-8	EU8-1	40%(1)	0.1 gr/dscf(4)	1.01	12.40 lb/hr	99-A-449-S2
EP-17	EU17-1	40%(3)	0.1 gr/dscf(4)	0.79	N/A	96-A-1244-S4
EP-19	EU19-1	40%(2)	1.93 lb/hr	1.93	10.7 (TPY)	98-A-942-S3

(1) An exceedence of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

(2) An exceedence of the indicator opacity of (20%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

(3) An exceedence of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

(4) Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 2.5 lb/MMBtu
Authority for Requirement: Iowa DNR Construction Permits specified in Table: Pre 2003 Emergency Generators -Emission Limits
567 IAC 23.3(3)"b"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Table: Pre-2003 Emergency Generators-Operational Limits & Requirements

Emission Point Number	Associated Emission Unit Number	Rolling 12-month Hours of Operation Limit (Hours)	Fuel Sulfur Limit(1) (By Weight)	Allowable Fuel Type	Reporting & Recordkeeping Requirements (2)	Authority for Requirements (Iowa DNR Construction Permit)
EP-006-1	EU-006-GEN-1	500	0.05%	#1 or #2 Diesel	1. Maintain records of fuel sulfur content. 2. Record the hours of operation of each generator for each month and calculate rolling 12-month totals.	00-A-940-S2
EP-006-2						00-A-941-S2
EP-018-4	EU-018-GEN-3	500	0.05%	#2 Diesel		01-A-800-S3
EP-022-1	EU-022-GEN-1	500	0.05%	#2 Diesel		99-A-942-S4
EP-044-1	EU-044-GEN-1	500	0.05%	#2 Diesel		01-A-730-S2
EP-073-1	EU-073-GEN-1	500	0.05%	#2 Diesel		02-A-377-S3
EP-112-1	EU-112-GEN-1	500	0.05%	#2 Diesel		02-A-379-S1
EP-185-2	EU-185-GEN-1	500	0.05%	#2 Diesel		99-A-448-S2
EP-204-2	EU-204-GEN-1	300	0.05%	#2 Diesel		96-A-1235-S3
EP-276-2	EU-276-GEN-2	500	0.05%	#2 Diesel		02-A-378-S3
EP-278-1	EU-278-GEN-1	300	0.05%	Diesel Fuel		96-A-1236-S2

Table: Pre-2003 Emergency Generators-Operational Limits & Requirements (cont.)

Emission Point Number	Associated Emission Unit Number	Rolling 12-month Hours of Operation Limit	Fuel Sulfur Limit[(1)]	Allowable Fuel Type	Reporting & Recordkeeping Requirements [(2)]	Authority for Requirements (Iowa DNR Construction Permit)
EP-316-1	EU-316-GEN-1	500	0.05%	#2 Diesel	1. Maintain records of fuel sulfur content. 2. Record the hours of operation of each generator for each month and calculate rolling 12-month totals.	02-A-380-S1
EP-418-1 EP-418-2	EU-418-GEN-1	300	0.05%	#2 Diesel		96-A-1237-S3
EP-430-1	EU-430-GEN-1	500	0.05%	#2 Diesel		99-A-592-S1
EP-447-1	EU-447-GEN-1	500	0.05%	#2 Diesel		00-A-840-S1
EP-448-1	EU-448-GEN-1	500	0.05%	#2 Diesel		98-A-941-S4
EP-1	EU1-1	300	0.05%	#2 Diesel		96-A-1238-S3
EP-2	EU2-1	300	0.05%	#2 Diesel		96-A-1239-S3
EP-4	EU4-1	300	0.05%	#2 Diesel		96-A-1240-S6
EP-5	EU5-1	300	0.05%	Diesel Fuel		96-A-1241-S2
EP-6	EU6-1	300	0.05%	Diesel Fuel		96-A-1242-S2
EP-7	EU7-1	300	0.05%	Any Diesel Fuel		96-A-1243-S2
EP-8	EU8-1	500	0.05%	#2 Diesel		99-A-449-S2
EP-17	EU17-1	250	0.05%	Diesel Fuel		96-A-1244-S4
EP-19	EU19-1	500	0.05%	Diesel Fuel		98-A-942-S3

[(1)]Requested by facility.

[(2)]All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Table: Pre 2003 Emergency Generators – Emission Point Characteristics

			Stack Characteristics				
Emission Point Number	**Associated Emission Unit Number**	**Construction Permit No.**	**Height (feet)**	**Diameter (inches)**	**Exhaust Flowrate (scfm)**	**Exhaust Temp. (^{o}F)**	**Discharge Style**
EP-006-1	EU-006-GEN-1	00-A-940-S2	11.5	7	2,000 (combined)	700	Vertical Unobstructed
EP-006-2		00-A-941-S2	11.5	7		700	Vertical Unobstructed
EP-018-4	EU-018-GEN-3	01-A-800-S3	66.75	14	1,900	906	Vertical Unobstructed
EP-022-1	EU-022-GEN-1	99-A-942-S4	77.16	8	1,500	1,119	Vertical Unobstructed
EP-044-1	EU-044-GEN-1	01-A-730-S2	80.5	9.75	1,200	1,063	Vertical Unobstructed
EP-073-1	EU-073-GEN-1	02-A-377-S3	60 ft 1 in	5	888	1,002	Vertical Unobstructed
EP-112-1	EU-112-GEN-1	02-A-379-S1	9.5	4	1,000	800	Vertical Unobstructed
EP-185-2	EU-185-GEN-1	99-A-448-S2	60	12	3,500	990	Vertical Unobstructed
EP-204-2	EU-204-GEN-1	96-A-1235-S3	37.25	8	1,400	810	Vertical Unobstructed
EP-276-2	EU-276-GEN-2	02-A-378-S3	98	6	888	1,002	Vertical Unobstructed
EP-278-1	EU-278-GEN-1	96-A-1236-S2	65.5	10	2,715 (acfm)	895	Vertical Unobstructed
EP-316-1	EU-316-GEN-1	02-A-380-S1	10.25	6	900	786	Vertical Unobstructed
EP-418-1	EU-418-GEN-1	96-A-1237-S3	14.5	8	3,300	755	Vertical Unobstructed
EP-418-2							
EP-430-1	EU-430-GEN-1	99-A-592-S1	48.5	6	1,000	895	Horizontal
EP-447-1	EU-447-GEN-1	00-A-840-S1	86	14	3,700	1,018	Vertical Unobstructed
EP-448-1	EU-448-GEN-1	98-A-941-S4	14	8	1,495	939	Vertical Unobstructed
EP-1	EU1-1	96-A-1238-S3	40.25	12	3,100	775	Vertical Unobstructed
EP-2	EU2-1	96-A-1239-S3	63.5	16	4,100	735	Vertical Unobstructed
EP-4	EU4-1	96-A-1240-S6	82.3	14	2,950	950	Vertical Unobstructed
EP-5	EU5-1	96-A-1241-S2	106.9	24	9,754 (acfm)	959	Vertical Unobstructed

Table: Pre 2003 Emergency Generators – Emission Point Characteristics (cont.)

			Stack Characteristics				
Emission Point Number	**Associated Emission Unit Number**	**Construction Permit No.**	**Height (feet)**	**Diameter (inches)**	**Exhaust Flowrate (scfm)**	**Exhaust Temp. (^{o}F)**	**Discharge Style**
EP-6	EU6-1	96-A-1242-S2	106.9	15	8,814 (acfm)	660	Vertical Unobstructed
EP-7	EU7-1	96-A-1243-S2	106.9	15	11,520 (acfm)	805	Vertical Unobstructed
EP-8	EU8-1	99-A-449-S2	93.2	10	1,200	1,060	Vertical Unobstructed
EP-17	EU17-1	96-A-1244-S4	82	18	10,337 (acfm)	1,018	Vertical Unobstructed
EP-19	EU19-1	98-A-942-S3	106	15	11,860	962	Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Pre-2003 Emergency Generators – Emission Point Characteristics

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Post-2002 Emergency Generators

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Post-2002 Emergency Generators

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Table: Post-2002 Emergency Generators

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity
EP-003-5	EU-003-GEN-3	Chemistry Building Generator	Diesel Fuel	1676 bhp
EP-004-1	EU-004-GEN-1	Jessup Hall Generator	Diesel Fuel	619 bhp
EP-042-1	EU-042-GEN-1	Kinnick Stadium Generator	Diesel Fuel	968 bhp
EP-046-4	EU-046-GEN-2	IMU Generator	Diesel Fuel	469 bhp
EP-212-1	EU-212-GEN-1	EPF1 Emergency Generator	Diesel Fuel	2011 bhp
EP-435-2	EU-435-GEN-2	MTF Diesel Generator (500 KW)	Diesel Fuel	726 bhp
EP-455-1	EU-455-GEN-1	CBRB Generator	Diesel Fuel	1598 bhp
EP-48	EU48-1	ETC Generator	Diesel Fuel	1073 bhp

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from these emission points shall not exceed the levels specified below.

Table: Post-2002 Emergency Generators -Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM Limit (lb/hr)	PM_{10} Limit (lb/hr)	SO_2 Limit (lb/hr)	NO_x Limit	Authority for Requirement (Construction Permit Number)
EP-003-5	EU-003-GEN-3	40%(1)	1.71	1.71	N/A	12.22 TPY	06-A-851
EP-004-1	EU-004-GEN-1	40%	(4)	(4)	(4)	(4)	(4)
EP-042-1	EU-042-GEN-1	40%(1)	0.91	0.91	N/A	N/A	05-A-534-S1
EP-046-4	EU-046-GEN-2	40%(2)	1.0	1.0	N/A	5.49 TPY	06-A-852
EP-212-1	EU-212-GEN-1	40%(1)(3)	0.92	0.92	N/A	N/A	08-A-074
EP-435-2	EU-435-GEN-2	40%(1)	0.77	0.77	N/A	N/A	03-A-645-S2
EP-455-1	EU-455-GEN-1	40%(1)	1.51	1.51	0.56	34.59 lb/hr	03-A-1412-S2
EP-48	EU48-1	40%(1)(3)	1.13	1.13	N/A	N/A	07-A-484-S1

(1) An exceedence of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

(2) An exceedence of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with

the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

(3) The source shall also meet the emission standards of 40 CFR 89.113 per 40 CFR 60.4205(b).

(4) A variance was granted by the IDNR to install this generator prior to issuance of a construction permit. A construction permit application has been submitted, and when the construction permit is issued the emission limits and permit number will be added to this permit.

Table: Post-2002 Emergency Generators – Emission Limits for Units Subject to 40 CFR 60 Subpart IIII (all limits in g/kW-hr)

Emission Point Number	Associated Emission Unit Number	PM Limit (Filterable only)	NOx	NOx + NMHC	CO	HC	Authority for Requirement
EP-003-5	EU-003-GEN-3	0.540	9.2	N/A	11.4	1.3	40 CFR 60.4205(a)
EP-004-1	EU-004-GEN-1	0.20	N/A	6.4	3.5	N/A	40 CFR 60.4205(b)
EP-042-1	EU-042-GEN-1	N/A	N/A	N/A	N/A	N/A	N/A
EP-046-4	EU-046-GEN-2	0.540	9.2	N/A	11.4	1.3	40 CFR 60.4205(a)
EP-212-1	EU-212-GEN-1	0.20	N/A	6.4	3.5	N/A	40 CFR 60.4205(b)
EP-435-2	EU-435-GEN-2	N/A	N/A	N/A	N/A	N/A	N/A
EP-455-1	EU-455-GEN-1	N/A	N/A	N/A	N/A	N/A	N/A
EP-48	EU48-1	0.20	N/A	6.4	3.5	N/A	40 CFR 60.4205(b)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 2.5 lb/MMBtu
Authority for Requirement: Iowa DNR Construction Permits specified in Table: Post-20023 Emergency Generators -Emission Limits
567 IAC 23.3(3)"b"

NSPS Applicability

Emission units EU-003-GEN-3, EU-004-GEN-1, EU-046-GEN-2, EU-212-GEN-1 and EU48-1 are subject to the New Source Performance Standards (NSPS) Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR §60.4200 through 40 CFR §60.4219) and to NSPS Subpart A - General Provisions (40 CFR §60.1 through 40 CFR §60.19).

NESHAP Applicability

These emission units are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines (40 CFR §63.6580 through 40 CFR §63.6675) and to NESHAP Subpart A - General Provisions (40 CFR §63.1 through 40 CFR §63.15). These generators are considered an Emergency Stationary Reciprocating Internal Combustion Engine (RICE) and are only subject to the initial

notification requirements of 40 CFR §63.6645(d). By NESHAP definition, Emergency Stationary RICE may operate only 50 hour per year in non-emergency situations.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Hours of operation:

1. The emergency generators shall not operate more than 500 hours per rolling twelve-month period.

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Post-2002 Emergency Generators -Emission Limits

Process throughput:

1. The emergency generators shall be limited to using #2 diesel fuel with a maximum sulfur content of 0.05% by weight.

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Post-2002 Emergency Generators -Emission Limits

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. Record each month the total hours of operation of the emergency generators. Calculate and record rolling twelve-month totals.
2. Maintain records of the sulfur content of the fuel oil used in the generators.

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Post-2002 Emergency Generators -Emission Limits

For units EU-046-GEN-2, EU-212-GEN-1 and EU48-1 only.

1. The emergency generators may only be operated in emergency situations and for routine maintenance and testing.

Authority for Requirement: Iowa DNR Construction Permits 06-A-852, 08-A-074 and 07-A-484-S1
40 CFR 60.4211(e)

For unit EU-003-GEN-3 only.

1. The Emergency/Back-up generator EU-003-GEN-3 shall not operate more than 50 hours per rolling twelve-month period in non-emergency situations per the definition of emergency stationary RICE in 40 CFR 63.6675.

Authority for Requirement: Iowa DNR Construction Permit 06-A-851

For units EU-003-GEN-3, EU-004-GEN-1, EU-046-GEN-2, EU-212-GEN-1 and EU48-1 only.

1. Beginning October 1, 2007, diesel fuel fired in the generators shall be limited to a maximum sulfur content of 500 ppm and a minimum centane index of 40 or a maximum aromatic content of 30 percent by volume per 40 CFR 80.510(a)

2. Beginning October 1, 2010, diesel fuel fired in the generators shall be limited to a maximum sulfur content of 15 ppm and a minimum centane index of 40 or a maximum aromatic content of 30 percent by volume per 40 CFR 80.510(b)
3. Per 40 CFR 60.4207, owners and operators of pre-2011 model year diesel generators subject to NSPS Subpart IIII may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of 40 CFR 80.510(a) or 40 CFR 80.510(b) beyond the dates required for the purpose of using up existing fuel inventories.

Authority for Requirement: Iowa DNR Construction Permits 08-A-074 (for EU-212-GEN-1) and 07-A-484-S1 (for EU48-1)
40 CFR 60.4207

Work practice standards: **For units EU-003-GEN-3, EU-046-GEN-2, EU-212-GEN-1 and EU48-1 only.**

1. A non-resettable hour meter must be continuously used on each generator.

Authority for Requirement: Iowa DNR Construction Permits 08-A-074 (for EU-212-GEN-1) and 07-A-484-S1 (for EU48-1)
40 CFR 60.4209(a)

For units EU48-1 and EU-212-GEN-1 only

1. Per 40 CFR 60.4211, for the emergency generators EU48-1 and EU-212-GEN-1 the owner or operator must purchase engines certified to the emissions standards in §60.4205(b) for the 2007 (or later) model year and maximum engine power (800 KW). The engines must be installed and configured according to the manufacturers specifications.
2. The owner or operator of the emergency generators EU48-1 and EU-212-GEN-1 must operate and maintain the generators according to the manufacturers written instructions or procedures developed by the owner or operator that are approved by the engine manufacturers, over the entire life of the engines. In addition, the owner or operator may only change those settings that are permitted by the manufacturer.

Authority for Requirement: Iowa DNR Construction Permits 07-A-484-S1 and 08-A-074

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Table: Post-2003 Emergency Generators – Emission Point Characteristics

			Stack Characteristics				
Emission Point Number	**Associated Emission Unit Number**	**Construction Permit No.**	**Height (feet)**	**Diameter (inches)**	**Exhaust Flowrate**	**Exhaust Temp. (^{o}F)**	**Discharge Style**
EP-003-5	EU-003-GEN-3	06-A-851	97.8	18	10,616 acfm	799	Vertical Unobstructed
EP-004-1	EU-004-GEN-1	(1)	10.62	8	3,655.1 acfm	909.9	Vertical Unobstructed

Table: Post-2003 Emergency Generators – Emission Point Characteristics (Cont.)

			Stack Characteristics				
Emission Point Number	**Associated Emission Unit Number**	**Construction Permit No.**	**Height (feet)**	**Diameter (inches)**	**Exhaust Flowrate**	**Exhaust Temp. (°F)**	**Discharge Style**
EP-042-1	EU-042-GEN-1	05-A-534-S1	14.33	9.75	1,832 scfm	1,011	Vertical Unobstructed
EP-046-4	EU-046-GEN-2	06-A-852	18	8	3,366 acfm	926	Vertical Unobstructed
EP-212-1	EU-212-GEN-1	08-A-074	57	14	11,060 acfm	764	Vertical Unobstructed
EP-435-2	EU-435-GEN-2	03-A-645-S2	14	10	1,465 scfm	1,187	Vertical Unobstructed
EP-455-1	EU-455-GEN-1	03-A-1412-S2	92.5	14	3,749 scfm	857	Vertical Unobstructed
EP-48	EU48-1	07-A-484-S1	106.25	12	6,932 acfm	964	Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Post-2003 Emergency Generators – Emission Point Characteristics

(1) A variance was granted by the IDNR to install this generator prior to issuance of a construction permit. A construction permit application has been submitted, and when the permit number will be added to this permit.

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Storage Tanks

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Storage Tanks

Table: Storage Tanks

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity (gallons)
EP-20	EU20-1	Colloton Pavilion West Fuel Tank	Diesel Fuel	15,000
EP-22	EU22-1	Pappajohn Pavilion Fuel Tank	Diesel Fuel	15,000
EP-24	EU24-UST-1	PFP Fuel Underground Storage Tank	Diesel Fuel	15,000

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from these emission points shall not exceed the levels specified below.

There are no emission limits at this time.

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. These tanks shall store only Diesel Fuel #1 or #2.

Authority for Requirement: Iowa DNR Construction Permits 99-A-581-S1, 99-A-582-S1 and 99-A-600-S1

Emission Point Characteristics
These emission points shall conform to the specifications listed below.

Table: Storage Tanks – Emission Point Characteristics

			Stack Characteristics				
Emission Point Number	Associated Emission Unit Number	Construction Permit No.	Height (feet)	Diameter (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (^{o}F)	Discharge Style
EP-20	EU20-1	99-A-581-S1	3	2	100	Ambient	Downward Discharge
EP-22	EU22-1	99-A-582-S1	3.5	2.5	100	Ambient	Downward Discharge
EP-24	EU24-UST-1	99-A-600-S1	71	2	100	Ambient	Downward Discharge

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Storage Tanks– Emission Point Characteristics

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Paint Booths

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Paint Booths
Emissions Control Equipment ID Number: See Table: Paint Booths
Emissions Control Equipment Description: See Table: Paint Booths

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Table: Paint Booths

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Control Equipment Number	Control Equipment Description	Raw Material	Rated Capacity (gal/hr)
EP-160-20	EU-160-PNT-1	Paint Booth at MSSB	CE-160-1	Dry Filters	Paint	3
EP-15	EU15-1	Hospital Paint Booth	CE-15-1	Dry Filters	Paint	9.375

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from these emission points shall not exceed the levels specified below.

Table: Paint Booths-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM Limit (gr./dscf) 567 IAC 23.4(13)	PM_{10} Limit (lb/hr)	VOC Limit (TPY)	HAP Limit Single & Total (TPY)	Authority for Requirement (Construction Permit Number)
EP-160-20	EU-160-PNT-1	10%	0.01	2.14	5.00	5.00	07-A-1293
EP-15	EU15-1	40%[(1)]	0.01	N/A	N/A	N/A	94-A-250-S4

[(1)] An exceedence of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Table: Paint Booths-Operational Limits & Requirements

Emission Point Number	Associated Emission Unit Number	Rolling 12-month Materials Usage Limit	Coatings VOC Limit (lb/gal)	Coatings Solids Limit (lb/gal)	Total HAP Limit (lb/gal)	Reporting & Recordkeeping Requirements [1]	Authority for Requirements (Iowa DNR Construction Permit)
EP-160-20	EU-160-PNT-1	1,220 gal	8.2	N/A	8.2	1. Record the monthly materials usage in each booth. 2. Record the rolling 12-month total of materials used in each booth. 3. Maintain MSDS of all materials used in each booth.	07-A-1293
EP-15	EU15-1	1,282 gal	7.8	N/A	N/A		94-A-250-S4

[1] All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

Additional Operating Limits & Requirements:

Process throughput:

For booth EU15-1 only:

1. Only one spray gun shall be operated at any one time.

Authority for Requirement: Iowa DNR Construction Permit 94-A-250-S4
Control equipment parameters:

For booth EU-160-PNT-1 only:

1. Maintain the filters according to manufacturer's specifications.

Authority for Requirement: Iowa DNR Construction Permit 07-A-1293

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

For booth EU15-1 only:

1. Maintain manufacturer's documentation for any spray gun used.
2. Maintain manufacturer's documentation for the filters used.

Authority for Requirement: Iowa DNR Construction Permit 94-A-250-S3

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Table: Paint Booths – Emission Point Characteristics

			Stack Characteristics				
Emission Point Number	**Associated Emission Unit Number**	**Construction Permit No.**	**Height (feet)**	**Diameter (inches)**	**Exhaust Flowrate (scfm)**	**Exhaust Temp. (°F)**	**Discharge Style**
EP-160-20	EU-160-PNT-1	07-A-1293	28	48	25,000	Ambient	Vertical Unobstructed
EP-15	EU15-1	94-A-250-S4	96.3	28	9,000	Ambient	Vertical

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Booths – Emission Point Characteristics

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Pharmacy Tablet Manufacturing

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Pharmacy Tablet Manufacturing
Emissions Control Equipment ID Number: See Table: Pharmacy Tablet Manufacturing
Emissions Control Equipment Description: See Table: Pharmacy Tablet Manufacturing

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Table: Pharmacy Tablet Manufacturing

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Control Equipment Number	Control Equipment Description	Control Equipment Number	Control Equipment Description	Raw Material	Rated Capacity (kg/hr)
EP-006-4 EP-006-5 EP-006-6 EP-006-7	EU-006-TAB-1	Pharmacy Tablet Manufacturing-Room 44C	CE-006-1	Baghouse	CE-006-14 CE-006-29 CE-006-15 CE-006-30 CE-006-16	Dry Pre-Filter Dry Pre-Filter HEPA Filter HEPA Filter Dry Pre-Filter	Various Pharmaceutical Materials	55.00
	EU-006-TAB-2	Pharmacy Tablet Manufacturing-Room 32A	CE-006-17	Dry Pre-filter			Various Pharmaceutical Materials	10.0
			CE-006-2	Dry Pre-filter				
			CE-006-13	HEPA Filter				
	EU-006-TAB-3	Pharmacy Tablet Manufacturing-Room 32H	CE-006-18	Dry Pre-filter			Various Pharmaceutical Materials	10.0
			CE-006-3	Dry Pre-filter				
			CE-006-12	HEPA Filter				
	EU-006-TAB-4	Pharmacy Tablet Manufacturing-Room 32C	CE-006-19	Dry Pre-filter			Various Pharmaceutical Materials	10.0
			CE-006-4	Dry Pre-filter				
			CE-006-11	HEPA Filter				
	EU-006-TAB-5	Pharmacy Tablet Manufacturing Room 32F	CE-006-20	Dry Pre-filter			Various Pharmaceutical Materials	10.0
			CE-006-5	Dry Pre-filter				
			CE-006-10	HEPA Filter				
	EU-006-TAB-6	Pharmacy Tablet Manufacturing Room 41B	CE-006-21	Dry Pre-filter			Various Pharmaceutical Materials Various Pharmaceutical Materials	10.0 10.0
			CE-006-22	Dry Pre-filter				
			CE-006-6	Dry Pre-filter				
			CE-006-23	Dry Pre-filter				
			CE-006-9	HEPA Filter				
			CE-006-24	HEPA Filter				
	EU-007-TAB-7	Pharmacy Tablet Manufacturing Room 43E	CE-006-25	Dry Pre-filter			Various Pharmaceutical Materials	10.0
			CE-006-26	Dry Pre-filter				
			CE-006-7	Dry Pre-filter				
			CE-006-27	Dry Pre-filter				
			CE-006-8	HEPA Filter				
			CE-006-28	HEPA Filter				

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from these emission points shall not exceed the levels specified below

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: 567 IAC 23.3(2)"d"
Iowa DNR Construction Permits 99-A-943-S2, 99-A-944-S2, 99-A-945-S2 and 99-A-946-S2 (EP-006-4, 5, 6, and 7, respectively)

(1) An exceedence of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
Iowa DNR Construction Permits 99-A-943-S2, 99-A-944-S2, 99-A-945-S2 and 99-A-946-S2 (EP-006-4, 5, 6, and 7, respectively)

Pollutant: Particulate Matter
Emission Limit(s): 0.53 lb/hr
Authority for Requirement: Iowa DNR Construction Permits 99-A-943-S2, 99-A-944-S2, 99-A-945-S2 and 99-A-946-S2 (EP-006-4, 5, 6, and 7, respectively)

Pollutant: PM_{10}
Emission Limit(s): 0.53 lb/hr
Authority for Requirement: Iowa DNR Construction Permits 99-A-943-S2, 99-A-944-S2, 99-A-945-S2 and 99-A-946-S2 (EP-006-4, 5, 6, and 7, respectively)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. In accordance with programming of the exhaust fans, only two of the four exhaust fans (EP-006-4, EP-006-5, EP-006-6, and EP-006-7) used in the pharmaceutical manufacturing rooms shall be in operation at any one time.

Control equipment parameters:

1. The facility is required to do routine filter maintenance on the control equipment used in the tablet manufacturing facility

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The permittee shall maintain records of the filter maintenance due on the control equipment used in the tablet manufacturing facility.

Authority for Requirement: Iowa DNR Construction Permits 99-A-943-S2, 99-A-944-S2, 99-A-945-S2 and 99-A-946-S2 (EP-006-4, 5, 6, and 7, respectively)

Emission Point Characteristics
These emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 105.83
Stack Opening, (inches, dia.): 105
Exhaust Flow Rate (scfm): 61,850
Exhaust Temperature (°F): 70
Discharge Style: Vertical, unobstructed
Authority for Requirement: Iowa DNR Construction Permits 99-A-943-S2, 99-A-944-S2, 99-A-945-S2 and 99-A-946-S2 (EP-006-4, 5, 6, and 7, respectively)

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Cooling Towers

Associated Equipment
Associated Emission Unit ID Numbers: See Table: Cooling Towers

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Table: Cooling Towers

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity
EP-308-2	EU-308-CT-1	WCCWP Cooling Tower 1	Cooling Water with Additives	912,000 gal/hr
EP-308-3	EU-308-CT-2	WCCWP Cooling Tower 2	Cooling Water with Additives	912,000 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from these emission points shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limits: 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limits: 0.33 tons/yr
Authority for Requirement: Iowa DNR Construction Permits 07-A-497 (EP-308-2) and 07-A -498 (EP-308-3)
Pollutant: Particulate Matter
Emission Limits: 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: PM_{10}
Emission Limit(s): 0.33 tons/yr
Authority for Requirement: Iowa DNR Construction Permits 07-A-497 (EP-308-2) and 07-A -498 (EP-308-3)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The average Total Dissolved Solids (TDS) concentration in the cooling water shall not exceed 2,000 ppm for any month.
2. The amount of any additive used shall not exceed 2,000 gallons (per tower) per twelve-month rolling period. The VOC content of the additive shall not exceed 1.7 lbs/gallon. (NOTE: The additive usage limit applies to VOC laden additives. If there are no VOCs in an additive then it does not apply against the usage limit).

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall measure the electrical conductivity of the cooling water to determine the Total Dissolved Solids (TDS) on a continuous basis. The owner or operator is required to take (1) water sample per month over a six month period to determine the relationship between the TDS and electrical conductivity. The determined TDS/conductivity relationship and the measured electrical conductivity value shall be used to determine compliance with allowable TDS concentration. (NOTE: for any malfunctions that may occur to the TDS monitoring system, the owner/operator may take daily grab samples. The TDS monitoring system is required to be operational at least 95% of the time. If the TDS monitoring system experiences downtime for more than 5% of the time a backup TDS monitoring system is required to be installed.)
2. The owner or operator shall maintain a record of the amount of additive used (in gallons) per twelve-month rolling period.
3. The owner or operator shall maintain the MSDS for any additives used in the cooling tower.

Authority for Requirement: Iowa DNR Construction Permits 07-A-497 (EP-308-2) and
07-A-498 (EP-308-3)

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 85.5
Stack Opening, (inches, dia.): 338
Exhaust Flow Rate (for each cell-the tower has two cells) (acfm): 839,185
Exhaust Temperature (°F): 100
Discharge Style: Vertical
Authority for Requirement: Iowa DNR Construction Permits 07-A-497 (EP-308-2) and
07-A-498 (EP-308-3)

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-006-3

Associated Equipment

Associated Emission Unit ID Numbers: EU-006-HOOD-1

Emission Unit vented through this Emission Point: EU-006-HOOD-1
Emission Unit Description: Pharmacy Hot Plate Hood
Raw Material/Fuel: Various Chemicals
Rated Capacity: 50 lb/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

There are no emission limits at this time

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 60
Stack Opening, (inches, dia.): 15.5 X 20
Exhaust Flow Rate (scfm): 4,000
Exhaust Temperature (°F): Ambient
Discharge Style: Downward discharge
Authority for Requirement: Iowa DNR Construction Permit 99-A-597-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-185-1

Associated Equipment

Associated Emission Unit ID Numbers: EU-185-LIME-1
Emissions Control Equipment ID Number: CE-185-1
Emissions Control Equipment Description: Filter Bag House

Emission Unit vented through this Emission Point: EU-185-LIME-1
Emission Unit Description: Water Plant Lime Conveying System
Raw Material/Fuel: Lime
Rated Capacity: 51,600 cf/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limits: 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒ **No** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-204-1

Associated Equipment

Associated Emission Unit ID Numbers: EU-204-INC-1, EU-204-INC-1A

Emission Unit vented through this Emission Point: EU-204-INC-1
Emission Unit Description: Crematorium-Natural Gas Combustion
Raw Material/Fuel: Natural Gas
Rated Capacity: 1.4 MMBtu/hr

Emission Unit vented through this Emission Point: EU-204-INC-1A
Emission Unit Description: Crematorium-Pathological Waste Combustion
Raw Material/Fuel: Pathological Waste
Rated Capacity: 0.125 tons/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: 40 %[(1)(2)]
Authority for Requirement: 567 IAC 23.4(12)"b"
Iowa DNR Construction Permit 87-A-156-S1

[(1)] No person shall allow, cause or permit the operation of an incinerator in a manner such that it produces visible air contaminants in excess of 40 percent opacity; except that visible air contaminates in excess of 60 percent opacity may be emitted for a period or period aggregation not more than 3 minutes in any 60-minute period during an operation breakdown or during the cleaning of air pollution control equipment.

[(2)] An exceedence of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter
Emission Limit: 0.35 gr/dscf
Authority for Requirement: 567 IAC 23.4(12)"a"
Iowa DNR Construction Permit 87-A-156-S1

Pollutant: PM_{10}
Emission Limit: 0.80 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 87-A-156-S1

Pollutant: Sulfur Dioxide (SO_2)
Emission Limits: 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"
Iowa DNR Construction Permit 87-A-156-S1

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The incinerator, emission unit EU-204-INC-1, shall only combust pathological waste as defined in 40 CFR 60.51c.

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. Notify the Administrator in writing of an exemption claim.
2. Keep records on a calendar quarter basis of the periods of time when only pathological waste is burned.

Authority for Requirement: Iowa DNR Construction Permit 87-A-156-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 58
Stack Opening, (inches, dia.): 18
Exhaust Flow Rate (scfm): 1,550
Exhaust Temperature (°F): 385
Discharge Style: Vertical Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 87-A-156-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-436-9

Associated Equipment

Associated Emission Unit ID Numbers: EU-436-PRNT-2

Emission Unit vented through this Emission Point: EU-436-PRNT-2
Emission Unit Description: Camera Processor
Raw Material/Fuel: developer fluid
Rated Capacity: 0.159 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: 40 %[(1)]
Authority for Requirement: 567 IAC 23.4(12)"b"
Iowa DNR Construction Permit 99-A-586

[(1)] An exceedence of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter
Emission Limit: 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"
Iowa DNR Construction Permit 99-A-586

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. Maintain records on the amount of developer fluid used on a monthly basis.
2. Maintain a rolling 12-month total of the amount of developer fluid used.

Authority for Requirement: Iowa DNR Construction Permit 99-A-586

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 17.25
Stack Opening, (inches, dia.): 4
Exhaust Flow Rate (scfm): 170
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 99-A-586

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-14

Associated Equipment

Associated Emission Unit ID Numbers: EU14-1

Emission Unit vented through this Emission Point: EU14-1
Emission Unit Description: JCP Sterilizing Services
Raw Material/Fuel: Ethylene Oxide
Rated Capacity: 15.90 lb/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limits: 40 %[(1)]
Authority for Requirement: 567 IAC 23.3(2)"d"
Iowa DNR Construction Permit 99-A-580

[(1)] An exceedence of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter
Emission Limits: 0.1 gr/scf
Authority for Requirement: 567 IAC 23.3(2)"a"
Iowa DNR Construction Permit 99-A-580

Pollutant: Single Hazardous Air Pollutant (HAP)
Emission Limit(s): 10 tons/yr
Authority for Requirement: Iowa DNR Construction Permit 99-A-580

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping: All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. The facility is required to track the amount of ethylene oxide used by the sterilizer on a monthly basis.

2. the facility shall also keep records of the amount of ethylene oxide used on a rolling 12-month basis.

Authority for Requirement: Iowa DNR Construction Permit 99-A-580

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 117
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 8,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 99-A-580

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the

compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
    a. Form 1.0 "Facility Identification";
    b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
    c. Form 5.0 "Title V annual emissions summary/fee"; and
    d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
    a. Form 1.0 "Facility Identification";
    b. Form 5.0 "Title V annual emissions summary/fee";
    c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges
Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:
1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information
The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties
The owner or operator of any air emission source or control equipment shall:
1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring
1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements
    b. The date the analyses were performed.
    c. The company or entity that performed the analyses.
    d. The analytical techniques or methods used.
    e. The results of such analyses; and
    f. The operating conditions as existing at the time of sampling or measurement.
    g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

a. Comply with all terms and conditions of this permit specific to each alternative scenario.

b. Maintain a log at the permitted facility of the scenario under which it is operating.

c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of

whether a violation has occurred at a source:

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;

b. Compliance test methods specified in 567 Chapter 25; or

c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

a. Any monitoring or testing methods provided in these rules; or

b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process

equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and expected duration of the excess emission.

iv. The cause of the excess emission.

v. The steps being taken to remedy the excess emission.

vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.

ii. The estimated quantity of the excess emission.

iii. The time and duration of the excess emission.

iv. The cause of the excess emission.
v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
vi. The steps that were taken to limit the excess emission.
vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
b. The facility at the time was being properly operated;
c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
d. The changes are not subject to any requirement under Title IV of the Act.
e. The changes comply with all applicable requirements.
f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,
ii. The date on which the change will occur,
iii. Any change in emission as a result of that change,
iv. The pollutants emitted subject to the emissions trade
v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that is required to do any of the following:

i. Correct typographical errors
ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
iii. Require more frequent monitoring or reporting by the permittee; or
iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.

a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:

i. Do not violate any applicable requirements
ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
v. Are not modifications under any provision of Title I of the Act; and
vi. Are not required to be processed as significant modification.

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
ii. The permittee's suggested draft permit
iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this

change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations, training fires and controlled burning of a demolished building. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 <u>except</u> 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. “Held” in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.

d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or

termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

a. Such applicable requirements are included and are specifically identified in the permit; or

b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum

production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. *567 IAC 26.1(1)*

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1
909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3
1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4
1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5
401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Field Office 6
1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

Polk County Public Works Dept.
Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Linn County Public Health Dept.
Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000